

```
for n in range(3,101):
    print(n, ' ',end='')
    xcourant = 1
    if n%2 == 0:
        ycourant = n//2-1
    else:
        ycourant = n//2 ;
    xa = 0
    xb = 0
    for i in range(n//2+1,n-1):
        res = n-((xcourant + 1) * ycourant)
        if res > 0:
            if i > n/2+1:
                print('b',end='')
                xcourant = xcourant+1
                xa = 0
                xb = xb+1
            else:
                if i > n/2+1:
                    print('a',end='')
                ycourant = ycourant-1
                xb = 0
                xa = xa+1
    print('')
```